



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/787,310	02/27/2004	Chia-Hung Kao	BHT-3230-90	4330
7590 06/02/2006		EXAMINER		
TROXELL LAW OFFICE PLLC			MARSH, OLIVIA MARIE	
SUITE 1404 5205 LEESBU	RG PIKE		ART UNIT	PAPER NUMBER
FALLS CHURCH, VA 22041			2617	

DATE MAILED: 06/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/787,310	KAO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Olivia Marsh	2617					
The MAILING DATE of this communication app							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 15 Ma	arch 2006						
·=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-3,5-8,10-12,14-16 and 18-21</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1-3,5-8,10-12,14-16 and 18-21</u> is/are	6)⊠ Claim(s) <u>1-3,5-8,10-12,14-16 and 18-21</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r						
10)⊠ The drawing(s) filed on <u>27 February 2004</u> is/are		d to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti							
11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
<u> </u>							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	•	-					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	ate atent Application (PTO-152)						
Paper No(s)/Mail Date  6) Other:							

Art Unit: 2617

#### **DETAILED ACTION**

# Response to Arguments

- 1. Applicant's arguments, see page 2, filed March 15, 2006, with respect to the rejection(s) of claim(s) 22 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Himmel *et al* (U.S. 6,993,319 B2) as applied in the below rejection of claim 18.
- 2. Applicant's arguments filed March 15, 2006, regarding claims 1, 5, 10, and 14 have been fully considered but they are not persuasive.

Applicant argues that Bashan fails to teach or suggest an antenna comprising a printed circuit board or a coiled enameled wire (page 2, paragraph 1). Applicant further observes that Bashan teaches that an antenna is etched on printed circuit board (page 2, paragraph 1), thus, as the Examiner stated in the previous Office Action, meets the limitation "said antenna comprises a **printed circuit board** [emphasis added] or a coiled enameled wire." The Examiner intended for the cited portion of Bashan to read on the choice of "printed circuit board" and not the choice of "coiled enameled wire" and has further clarified this position in the below rejection. Therefore, the Examiner will maintain the previous rejection.

Art Unit: 2617

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 18-19, and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Himmel et al (U.S. 6,993,319 B2).

As to claim 18, Himmel discloses:

An apparatus (tag 400) for radio frequency identification (column 6, lines 53-54), comprising:

a supporter (mobile telephone) comprising a shell and a memory chip (non-volatile memory) and an antenna (420), wherein said memory chip and said antenna are adhering tags adhered to said shell wherein said adhering tag is a soft circuit board (flexible film) and is coated with an adhering material on a surface of said adhering tag (column 6, lines 55-65; column 7, lines 19-25).

As to claim 19, Himmel discloses everything as applied in claim 18 and Himmel also discloses:

wherein said supporter is selected from the group consisting of MP3, mobile, and belt (column 7, lines 22-25, choosing "mobile" option).

Art Unit: 2617

As to claim 21, Himmel discloses everything as applied in claim 18 and Himmel also discloses:

wherein said antenna comprises a printed circuit board or a coiled enameled wire (Figure 4, choosing option "printed circuit board").

Art Unit: 2617

# Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-2, 5-7, and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Son (U.S. 2005/0197169 A1) in view of Bashan *et al* (U.S. 6719206 B1).

As to claim 1, Son discloses:

an apparatus for radio frequency identification (see paragraphs 3 and 9), comprising:

a supporter comprising a slot (see paragraph 33);

a data card comprising a memory chip, said data card for storing data, said data card receivable into said slot, said data card connected to an antenna (see paragraphs 26, 32-33, and 44). It is inherent the smart card disclosed by Son comprises a memory chip to store data and an antenna to communicate with the SCR.

Son discloses everything as applied in above; however, Son fails to disclose wherein said antenna comprises a printed circuit board or a coiled enameled wire. The Examiner maintains this feature was old and well known in the art at the time of invention as taught by Bashan.

In the same field of endeavor, Bashan teaches antenna comprises a printed circuit board (PCB) (see column 1, lines 10-12, column 4, lines 60-62).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the apparatus and antenna, disclosed by Son, antenna comprises a printed

Application/Control Number: 10/787,310

Art Unit: 2617

circuit board (PCB), as taught by Bashan, to ensure no additional electrical connections are required between the coil antenna and the chip carrier module.

As to **claim 2**, Son and Bashan teach everything as applied in claim 1 and Son also discloses supporter is selected from the group consisting of MP3, mobile, watch, and belt (see Figure 1).

As to claim 5, Son discloses:

an apparatus for radio frequency identification (see paragraphs 3 and 9), comprising:

a supporter comprising a plurality of slots, said supporter internally connected to an antenna, said antenna for connecting to a memory chip (see Figure 1, paragraphs 9, 26, 30);

a memory chip for storing data, said memory chip being plugged into a slot, said memory chip electronically connected to said antenna by a contact on a surface of said memory chip (see paragraphs 30, 31, 35).

Son discloses everything as applied in above; however, Son fails to disclose wherein said antenna comprises a printed circuit board or a coiled enameled wire. The Examiner maintains this feature was old and well known in the art at the time of invention as taught by Bashan.

In the same field of endeavor, Bashan teaches antenna comprises a printed circuit board (PCB) (see column 1, lines 10-12, column 4, lines 60-62).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the apparatus and antenna, disclosed by Son, antenna comprises a printed circuit board (PCB), as taught by Bashan, to ensure no additional electrical connections are required between the coil antenna and the chip carrier module.

Art Unit: 2617

As to **claim 6**, Son and Bashan teach everything as applied in claim 5 and Son also discloses a second slot for directly connecting to a data card having an antenna (see Figure 1, paragraphs 26, 32-33, and 44).

As to **claim 7**, Son and Bashan teach everything as applied in claim 5 and Son also discloses supporter is selected from the group consisting of MP3, mobile, watch, and belt (see Figure 1).

As to claim 10, Son discloses:

a method and apparatus for radio frequency identification (see paragraphs 3 and 9), comprising:

a supporter comprising a memory chip, said memory chip for storing data, said supporter comprising an antenna which is to obtain induced voltage (see Figure 1, paragraphs 9, 26, 32-33, and 44). It is inherent the smart card disclosed by Son comprises a memory chip to store data and an antenna that induces voltage to communicate with the SCR.

Son discloses everything as applied in above; however, Son fails to disclose wherein said antenna comprises a printed circuit board or a coiled enameled wire. The Examiner maintains this feature was old and well known in the art at the time of invention as taught by Bashan.

In the same field of endeavor, Bashan teaches antenna comprises a printed circuit board (PCB) (see column 1, lines 10-12, column 4, lines 60-62).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the apparatus and antenna, disclosed by Son, antenna comprises a printed circuit board (PCB), as taught by Bashan, to ensure no additional electrical connections are required between the coil antenna and the chip carrier module.

Art Unit: 2617

As to **claim 11**, Son and Bashan teach everything as applied in claim 10 and Son also discloses supporter is selected from the group consisting of MP3, mobile, watch, and belt (see Figure 1).

7. Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seita (U.S. 6973327 B2) in view of Bashan et al (U.S. 6719206 B1).

As to claim 14, Seita discloses:

an apparatus for radio frequency identification (see column 1, lines 17-20, column 1, lines 44-46), comprising:

a supporter comprising a shell, wherein a memory chip and an antenna are inside said shell (column 3, lines 65-67, column 5, lines 5-10, column 5, lines 19-23; Figures 3A-3B).

Seita discloses everything as applied above; however, Seita fails to disclose wherein said antenna comprises a printed circuit board or a coiled enameled wire. The Examiner maintains this feature was old and well known in the art at the time of invention as taught by Bashan.

In the same field of endeavor, Bashan teaches antenna comprises a printed circuit board (PCB) (see column 1, lines 10-12, column 4, lines 60-62).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the apparatus and antenna, disclosed by Seita, antenna comprises a printed circuit board (PCB), as taught by Bashan, to ensure no additional electrical connections are required between the coil antenna and the chip carrier module.

As to **claim 15**, Seita and Bashan teach everything as applied in claim 14 and Seita also discloses supporter is selected from the group consisting of MP3, mobile, watch, and belt (column 1, lines 17-20).

8. Claims 3, 8, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Son and Bashan as applied to claims 1, 5, and 10 above, and further in view of Arisawa et al (U.S. 2003/0141989 A1).

As to claim 3, Son and Bashan teach everything as applied in claim 1; however, neither Son nor Bashan teaches the memory chip comprises a plurality of components of diode and capacitor. The Examiner maintains this feature was old and well known in the art at the time of invention as taught by Arisawa.

In the same field of endeavor, Arisawa teaches a memory chip comprises a plurality of components of diode and capacitor (see Figure 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the memory chip and data card, taught by Son and Bashan, memory chip comprises a plurality of components of diode and capacitor, as taught by Arisawa, in order to store data on the memory chip.

As to claim 8, Son and Bashan teach everything as applied in claim 5; however, neither Son nor Bashan teach the memory chip comprises a plurality of components of diode and capacitor. The Examiner maintains this feature was old and well known in the art at the time of invention as taught by Arisawa.

Arisawa teaches a memory chip comprises a plurality of components of diode and capacitor (see Figure 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the memory chip and data card, taught by Son and Bashan, memory chip comprises a plurality of components of diode and capacitor, as taught by Arisawa, in order to store data on the memory chip.

As to claim 12, Son and Bashan teach everything as applied in claim 10; however, neither Son nor Bashan teach the memory chip comprises a plurality of components of diode and capacitor. The Examiner maintains this feature was old and well known in the art at the time of invention as taught by Arisawa.

Arisawa teaches a memory chip comprises a plurality of components of diode and capacitor (see Figure 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the memory chip and data card, , taught by Son and Bashan, memory chip comprises a plurality of components of diode and capacitor, as taught by Arisawa, in order to store data on the memory chip.

9. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Seita and Bashan as applied to claim 14 above, and further in view of Arisawa et al (U.S. 2003/0141989 A1).

As to **claim 16**, Seita and Bashan teach everything as applied in claim 14; however, neither Seita nor Bashan teaches the memory chip comprises a plurality of components of diode and capacitor. The Examiner contends this feature was old and well known in the art at the time of invention as taught by Arisawa.

Arisawa teaches a memory chip comprises a plurality of components of diode and capacitor (see Figure 10).

Art Unit: 2617

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the memory chip and data card, taught by Seita and Bashan, memory chip comprises a plurality of components of diode and capacitor, as taught by Arisawa, in order to store data on the memory chip.

10. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Himmel as applied to claim 18 above, and further in view of Arisawa et al (U.S. 2003/0141989 A1).

As to **claim 20**, Himmel discloses everything as applied in claim 18; however, Himmel fails to disclose the memory chip comprises a plurality of components of diode and capacitor.

The Examiner contends this feature was old and well known in the art at the time of invention as taught by Arisawa.

Arisawa teaches a memory chip comprises a plurality of components of diode and capacitor (see Figure 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the memory chip and data card, disclosed by Himmel, the memory chip comprises a plurality of components of diode and capacitor, as taught by Arisawa, in order to store data on the memory chip.

Art Unit: 2617

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Olivia Marsh whose telephone number is 571-272-7912. The examiner

can normally be reached on 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marsha Banks-Harold can be reached on 571-272-7905. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CHARLES APPIAH